

Claims

1. An adhesive sheet composed of a blend of a rubber S1 and a thermoplastic 2,
 - a) the blend being microphase-separated,
 - b) the blend possessing at least two softening temperatures, at least one softening temperature being greater than 65°C and less than 125°C,
 - c) a G' at 23°C, as measured by test method A, of greater than 10⁷ Pas,
 - d) a G" at 23°C, as measured by test method A, of greater than 10⁶ Pas,
 - e) and a crossover, as measured by test method A, of less than 125°C.
- 10 2. The adhesive sheet of claim 1, characterized in that the rubber is a synthetic rubber.
- 15 3. The adhesive sheet of claim 2, characterized in that synthetic rubbers S1 used are polyvinyl butyral, polyvinyl formal, nitrile rubbers, nitrile-butadiene rubbers, hydrogenated nitrile-butadiene rubbers, polyacrylate rubbers, chloroprene rubbers, ethylene-propylene-diene rubbers, methyl-vinyl-silicone rubbers, fluorosilicone rubbers, tetrafluoroethylene-propylene copolymer rubbers, butyl rubbers, styrene-butadiene rubbers.
- 20 4. The adhesive sheet of claim 3, characterized in that the rubber is a nitrile rubber.
5. The adhesive sheet of claim 4, characterized in that
 - a) the nitrile rubber possesses a softening temperature of -80°C to 0°C
 - b) the thermoplastic possesses a softening temperature of 65°C to 125°C
 - c) the nitrile rubber is insoluble in the thermoplastic.
- 25 6. The adhesive sheet of at least one of the preceding claims, characterized in that the layer thickness is between 10 and 100 µm, with particular preference between 30 and 80 µm.
- 30 7. The adhesive sheet of at least one of the preceding claims, characterized in that the thermoplastics T2 are particularly preferably selected from the groups consisting of copolyamides, polyethyl-vinyl acetates, polyvinyl acetates, polyolefins, polyurethanes, and copolyesters.
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8. The adhesive sheet of at least one of the preceding claims, characterized in that synthetic rubbers S1 used are polyvinyl butyral, polyvinyl formal, nitrile rubbers, nitrile-butadiene rubbers, hydrogenated nitrile-butadiene rubbers, polyacrylate rubbers, chloroprene rubbers, ethylene-propylene-diene rubbers, methyl-vinyl-silicone rubbers, fluorosilicone rubbers, tetrafluoroethylene-propylene copolymer rubbers, butyl rubbers, styrene-butadiene rubbers.

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9. The adhesive sheet of at least one of the preceding claims, characterized in that reactive resins used additionally comprise epoxy resins, and/or phenolic resins and/or novolak resins.

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10. The use of an adhesive sheet of at least one of the preceding claims for bonding polyimide-, polyester or epoxy-based chip modules and on PVC, ABS, PET, PC, PP or PE card bodies.

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11. A method for producing a heat-activable adhesive tape, characterized in that an adhesive sheet of claims 1 to 9 is coated onto a release paper or a release film.

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12. The method of claim 11, characterized in that the heat-activable adhesive tape is die-cut.

13. The method of at least one of claims 11 and 12, characterized in that the heat-activable adhesive tape is processed with an implanting die temperature of 150°C.